

558012/19/05

Revised

**CITY OF RIVERSIDE**  
**HUMAN RESOURCES DEPARTMENT**  
**CLASSIFICATION SPECIFICATION**

---

**TITLE:** **UTILITIES WELDER/PIPE FITTER**

**DEFINITION**

Under general supervision, to perform skilled welding and pipefitting work in a variety of water system construction and maintenance activities; to lead a small work crew; and to do related work as required.

**REPORTS TO:** Utilities Water Supervisor

**SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Utilities Water Supervisor; may lead subordinate staff as assigned.

**EXAMPLES OF DUTIES**

Typical duties may include, but are not limited to, the following:

- Build, modify, and repair (from blueprints) new and existing pump stations.
- Weld nozzles on existing pipelines; set-up and operate hot-tap machine; layout and fabricate various types and sizes of pipeline off-sets; make tie-ins; install water services, meters, and detector checks; cut, fit and repair water mains; install and repair hydrants and gate valves.
- Weld traffic plates; fabricate, erect, and repair fences and gates; perform welding procedures to secure and repair pump stations and other types of buildings.
- Install, remove, and repair large and small services.
- Cut, fit, lay, and repair water mains; clean, chlorinate, and flush water mains and take water samples for testing; repair mains, valves, and hydrants.
- Mix concrete, build forms, pour thrust blocks, vaults, and small slabs for pump motors.
- Operate large trucks and heavy equipment such as backhoes, loaders, and cranes.
- Lead 2-person crew (including pipefitter); fill in for supervisor as needed, order materials, keep work records, and fill out time cards. Supervise and instruct helpers in excavating and preparing pipes for welding.
- Responsible for maintenance and supplies of service truck and welding machinery.

**QUALIFICATIONS**

**Knowledge of:**

- Methods, materials, work practices, and welding equipment and tools pertaining to all phases of pipeline maintenance and distribution.
- Methods, materials, practices and tools required for pipeline, hydrant service and meter installations, testing and repair.
- Occupational hazards and safety precautions common in welding and pipeline construction.

**Ability to:**

- Understand and follow oral and written instruction, including engineered blueprints.
- Work from sketches and blueprints or use own judgment and initiative to complete job satisfactorily when none are available.
- Lead and instruct other crew-members.
- Perform manual work, welding, and pipefitting practices under all weather conditions, and be willing to work on emergencies when called out during a 24-hour period.
- Use and properly care for tools and equipment related to water utility.
- Maintain records and fill out reports.
- Set up and direct traffic control in a safe and organized manner.

**Education and Experience:**

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education: Equivalent to the completion of the twelfth grade and completion of 24 units of junior college level course work (9 units are required to obtain Department of Health Services Certifications listed under special requirements).

Experience: Three years of journey level pipeline welding experience with journey level knowledge of water distribution and transmission pipelines.

**MEDICAL CATEGORY:** Group 2

**NECESSARY SPECIAL REQUIREMENT**

Possession of, or the ability to obtain within 6 months, a California Commercial Class "A" drivers license with a tank endorsement.

Possession of, or ability to obtain within one year, a current Welder Certification Certificate equivalent to AWS standards.

Possession of a valid California Department of Health Services Water Distribution Operator Certificate Grade II. A valid California Department of Health Services Water Treatment Operator Certificate Grade I.

**CAREER ADVANCEMENT OPPORTUNITIES**

**FROM:** Utilities Welder/Pipe Fitter

**TO:** Utilities Water Supervisor